



JC20 Rec'd PCT/PTO 26 MAR 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Takashi KAWASUJI et al.

Serial No. 10/069,999

Filed March 1, 2002

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Docket No. 2002-0288A

Group Art Unit Not Yet Assigned

Examiner Not Yet Assigned

INTEGRASE INHIBITORS COMPRISING :
AROMATIC HETEROCYCLE DERIVATIVES

pct

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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents,
Washington, DC 20231

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of ☒ the references listed on attached form PTO-1449 and/or ☐ the additional information identified below in paragraph 3. A legible copy of each reference listed on the form PTO-1449 and each U.S. patent application listed below is enclosed.

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

- (1) ☐ the certification of paragraph 2 below is provided, **or**
(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

- a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
- b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:

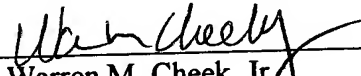
- a. ☐ a full or partial English language translation submitted herewith,
- b. ☐ a foreign patent office search report (in the English language) submitted herewith,

- c. ☐ the concise explanation contained in the specification of the present application at page,
 - d. ☐ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☐ A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Takashi KAWASUJI et al.

By


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March 26, 2002

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: March 26, 2002

ATTY DOCKET NO.
2002-0288ASERIAL NO.
10/069,999APPLICANT
Takashi KAWASUJI et al.FILING DATE
March 1, 2002

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA		5,480,887	1/1996				
AB		5,780,640	7/1998				
AC							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
✓	AJ	2113687	8/1983	GB			
	AK						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	AO	K Hirai et al. "Synthesis of 2-Disubstituted-amino-4-arylthiazol-5-yl-alikanoic Acids", Chem. Pharm. Bull., Vol. 25, No. 9, pp. 2292-2299, 1977.
✓	AP	F. R. Heirtzler, "Preparation of non-symmetrical 2,3-bis (2,2'-oligopyridyl)pyrazines via 1,2-disubstituted ethanones" Synlett, No. 8, pp. 1203-1206, August 1999.
	AQ	X. Chen et al., "A new procedure to enols of 2-acylmethyl-4,4-dimethyl-2-oxazolines under ultrasonically dispersed potassium system", Chin. J. Chem., Vol. 17, No. 1, pp. 80-83, January 1999.
✓	AO	S. K. Bertilsson et al., "Chiral N,N'- and N,O-Bidentate Anionic Ligands. "Preparation, Metal Complexation, and Evaluation in the Asymmetric Aziridination of Olefins Organometallics", Vol. 18, No. 7, pp. 1281-1286, March 1999.
✓	AP	Chemical Abstracts, Vol. 117, 1992, Abstract No. 171384, Registry No. 143814-20-4.
	AQ	Chemical Abstracts, Vol. 114, 1991, Abstract No. 122162, Registry No. 129884-23-7 129884-21-5.
✓	AP	Chemical Abstracts, Vol. 108, 1988, Abstract No. 150582, Registry No. 111559-36-5 111559-35-4.
	AQ	Chemical Abstracts, Vol. 105, 1986, Abstract No. 6436, Registry No. 102720-85-4.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	BH							
	BI							
	BJ							
	BK							
	BL							

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	BM	Chemical Abstracts, Vol. 103, 1985, Abstract No. 21944, Registry No. 95589-69-8.
✓	BN	Chemical Abstracts, Vol. 101, 1984, Abstract No. 211021, Registry No. 93074-95-4.
	BO	Chemical Abstracts, Vol. 100, 1984, Abstract No. 85565, Registry No. 88474-13-9.
✓	BP	Chemical Abstracts, Vol. 90, 1979, Abstract No. 72026, Registry No. 69097-74-1 69097-73-0 69097-72-9.

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	CA						
	CB						
	CC						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	CD						
	CE						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	CF	Gordon N. Walker et al., "Synthesis of Benzo[f]quinolines and Ergolines from 5-Phenyl-6-methyl-2-pyridones", J. Org. Chem., Vol. 26, pp. 4441-4456, November 1961.
	CG	Rodolfo Nesi et al., "Thermal Rearrangement of Ethyl 5-Nitro-4-phenyl-2-oxa-3-azabicyclo[3.1.0]hex-3-ene-1-carboxylate into a Quinoxaline System", J. Chem. Soc. Chem. Commun., Vol. 23, pp. 1675-1676, July 1990.
✓	CH	Ana Brbot-Saranovic et al., "Reactions of Ethyl 2-Hydroxy-4-(4-Hydroxy-6-Methyl-2-Pyrone-3-YL)-4-Oxo-2-Butenoate With N-Nucleophiles. Synthesis of Isomeric Pyronylpyrazoles and Pyrano[4,3-c]Pyrazoles", Heterocycles, Vol. 29, No. 8, pp. 1559-1571, April 1989.
✓	CI	Rok Zupet et al., "A Convenient Synthesis of Alkyl Heteroarylpyruvates" Synthetic Communications, 22(15), pp. 2245-2251, April 1992
✓	CJ	Johannes Meiwes et al., "Asymmetric synthesis of L-thienylalanines", Tetrahedron Asymmetry, Vol. 8, No. 4, pp. 527-536, January 1997.
✓	CK	V. Boekelheide et al., "Synthesis of Pyrrocolines Unsubstituted in the Five-membered Ring", J. Am. Chem. Soc., Vol. 81, pp. 1456-1459, March 1959.
✓	CL	Roger Adams et al., "Condensation Reactions of Picoline 1-Oxides", J. Am. Chem. Soc., Vol. 76, pp. 3168-3171, June 1954.
✓	CM	Helvetica Chimica Acta, "Vol. 38, No. 176, pp. 1452-1472, 1955.

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